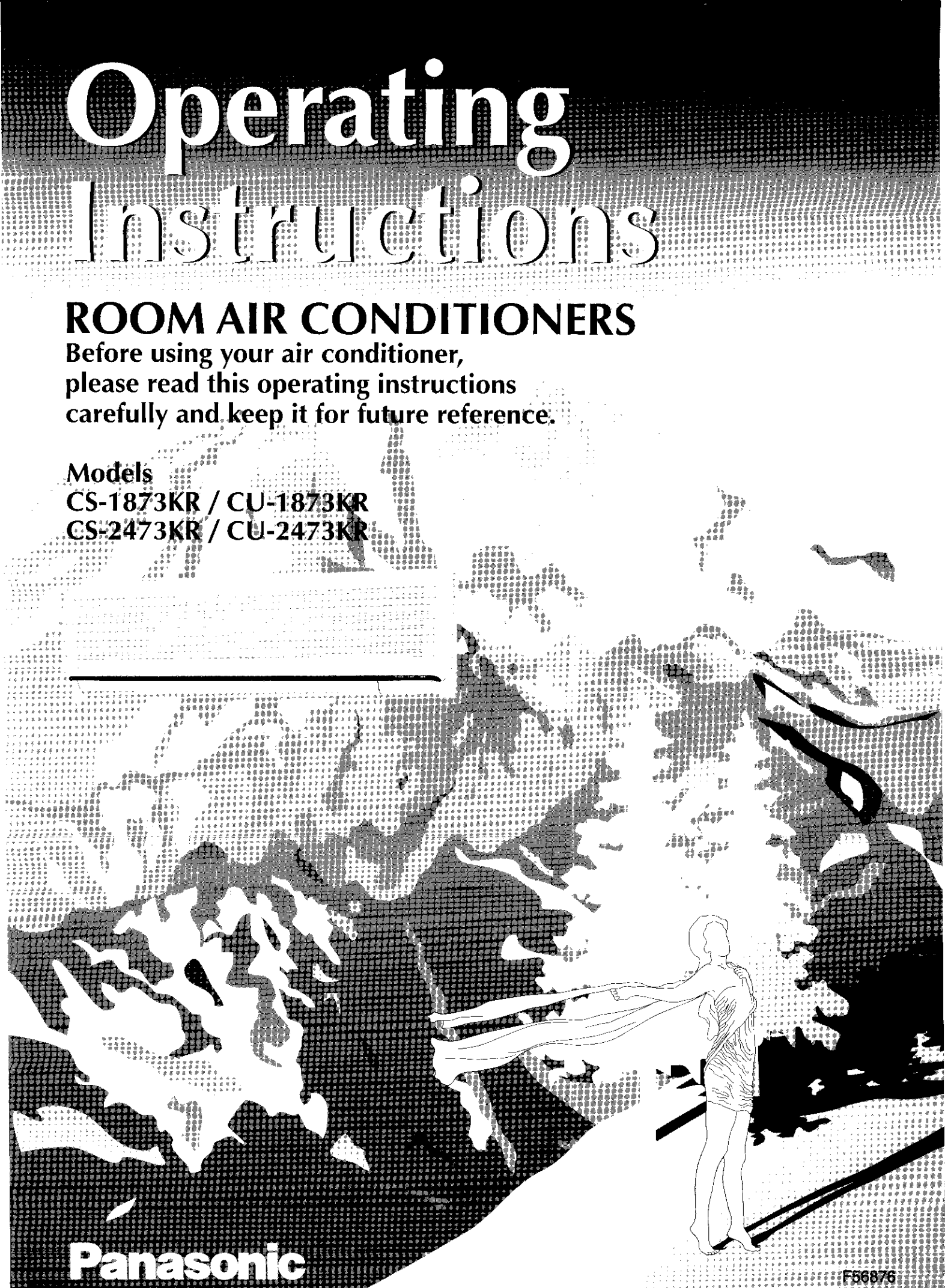
Operating Instructions

ROOM AIR CONDITIONERS

Before using your air conditioner, please read this operating instructions carefully and keep it for future reference.

Models
CS-1873KR / CU-1873KR
CS-2473KR / CU-2473KR



Panasonic

F56876

[CONTENTS]

1. Product Component Identification 1
2. Air Conditioner Operation 6
3. Forced Operation 17
4. Care and Maintenance 18
5. Operation Tips 21
6. Caution 22
7. Before Calling For Service 23

1. Product Component Identification

(1) Feature

1 Automatic Operation Mode page 10

As soon as you select this operation mode by Operation Mode Selection Button, the temperature sensor and built-in microcomputer begin working, controlling the room temperature by choosing among the Soft Dry, Cooling and Heating modes.

2 Soft Dry Operation Mode page 9

When the room air conditioner is turned on, the Cooling mode is activated to dehumidify the room. A gentle breeze then keeps the room fresh and cool while minimizing fluctuations in temperature. This mode is designed to be used when temperature is rather cool but the humidity is high.

3 OFF/ON Dual Setting Timer page 14~15

Before leaving home in the morning, you can program the room air conditioner to turn itself on just before you return in the evening. Your home is comfortable when you get back without wasting electricity. The room air conditioner can be set in the same way to ensure your maximum comfort when sleeping.

4 Sleep Mode Auto Control page 16

It creates a comfortable sleeping condition.

(Cooling and Soft Dry Operation)

At the start of Sleep Mode, it raises the room temperature by half a degree Centigrade. One hour later it raises the temperature half a degree Centigrade.

(Heating Operation)

At the start of Sleep Mode, it drops the room temperature by 2 degree Centigrade. One hour later it drops the temperature 3 degree Centigrade. The built-in microcomputer then maintains the temperature for eight hours in Cooling and Soft Dry Operation, or five hours in Heating Operation until automatically operation ends. The result is a more comfortable and invigorating sleep that leaves you feeling fresh and strong in the morning.

5 Airflow Direction Auto-Control page 12~13

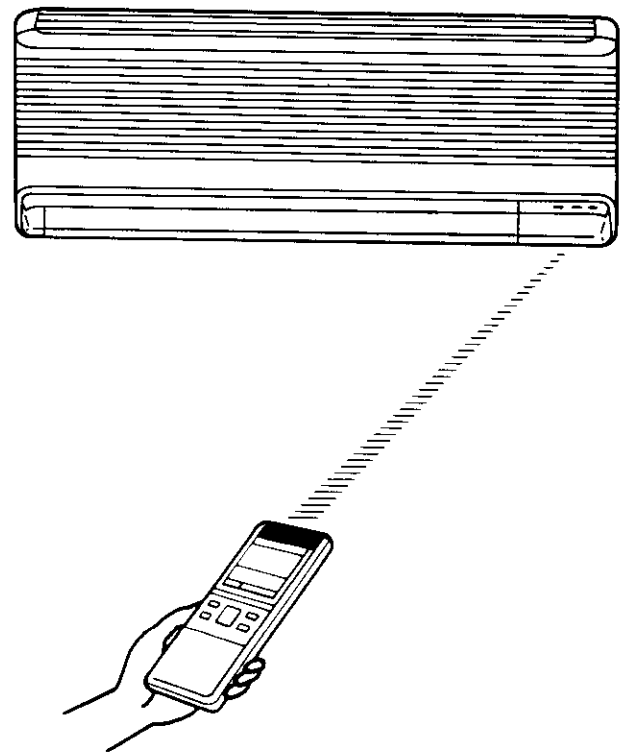
(Cooling and Soft Dry Operation)

Vertical airflow direction louver automatically swings up and down.

Creates the feeling of a refreshing breeze.

(Heating Operation)

The louver will be set to the horizontal position when the airflow temperature is cool, such as at the start of operation, and then move to downward when it become warmer.



Wireless Remote Control puts all functions at your fingertips.

Handling the remote control

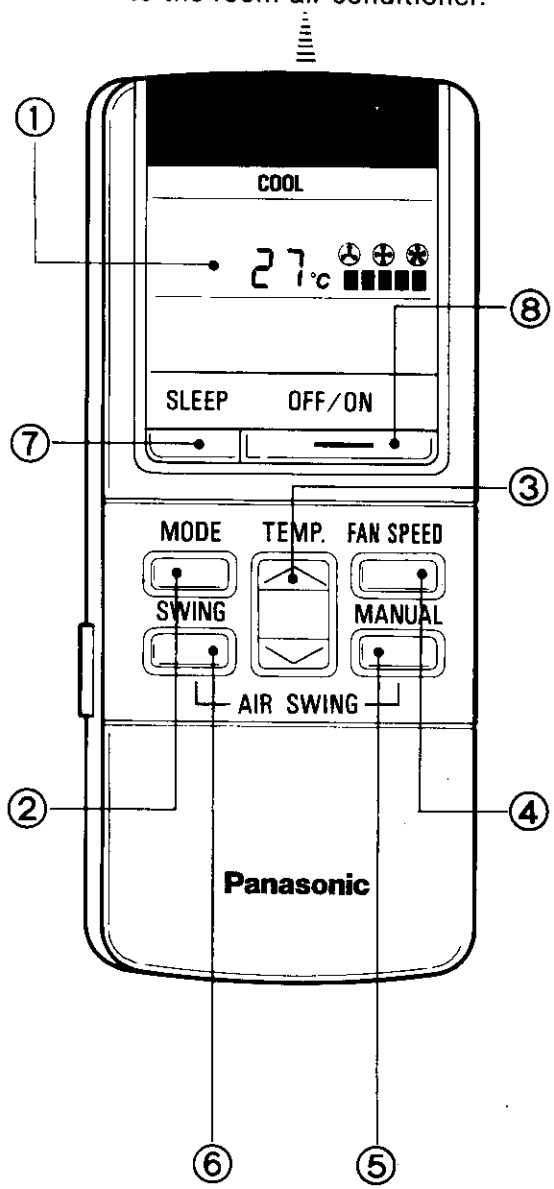
- Aim at the signal receptor on the room air conditioner when operating.
- The remote control signal can be received at a distance of up to about 10m.
- Be sure that there are no obstructions between the remote control and the signal receptor.
- Do not drop or throw the remote control.
- Do not place the remote control in a location exposed to direct sunlight, or next to a heating unit, or other heat source.

(2) Name and Function-Remote Control

Remote Control

Signal transmitter

Transmit the signals
to the room air conditioner.



① Operation Display

Displays the operation conditions.

② Operation Mode Selection Button

Used to select the type of operation mode.

AUTO Automatic Operation Mode 1

HEAT Heating Operation Mode

COOL Cooling Operation Mode

DRY Soft Dry Operation Mode 2

③ Room Temperature Setting Button

Use to adjust the temperature.

④ Indoor Fan Speed Selection Button

Use to select the desired fan speed in three steps from Low to High.

⑤ Airflow Direction Manual Control Button

Press to set the desired airflow direction.

⑥ Airflow Direction Auto-control Button

For Automatic Airflow Direction Control.

⑦ Sleep Mode Auto Operation Button

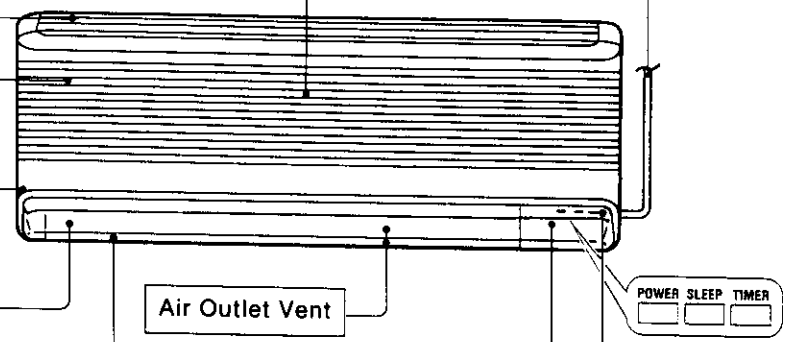
Press this button for Sleep Mode Auto Operation.

⑧ Off/On Button

Operation will start when this button is pressed, and stop when the button is pressed again.

(3) Indoor Unit, Outdoor Unit

Indoor Unit

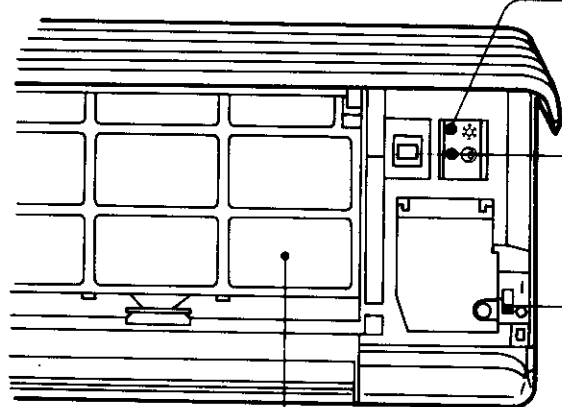


Receives the signals from the remote control.
(Signal received sound: two short beeps or one long beep)

Illuminates when the air conditioner is in operation.
(Blinks at the start of automatic operation or defrosting operation and hot start operation in heating mode.)

Indoor unit controls and indicators

Open

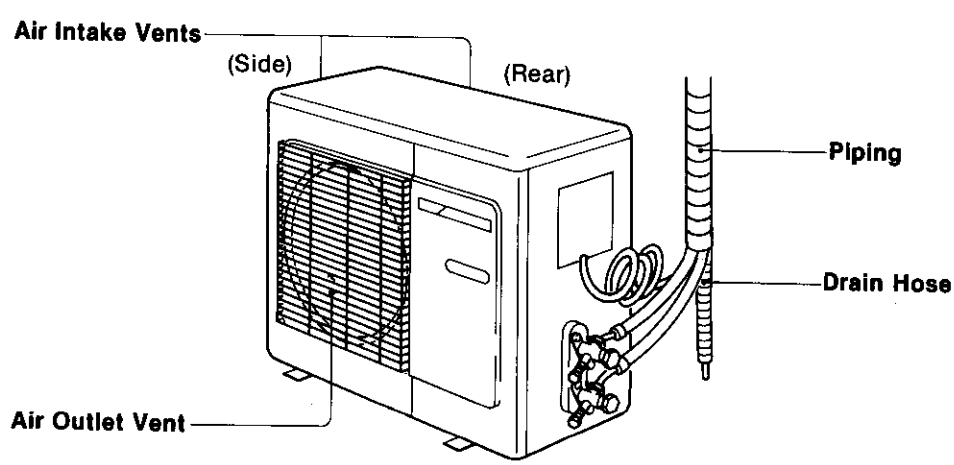


Use when installing and moving.
Normally it should not be used.

Use when the remote control is not used.

Set to "O" (OFF) if the air conditioner is not going to be used for an extended period of time.

Outdoor Unit

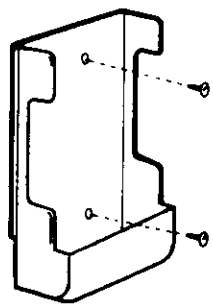


(4) Remote Control Preparation

How to mount onto a wall.

1 Fix the holder with screws when mounted onto a wall.

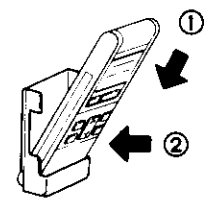
Confirm that the remote control signals can be received from this location.



2 To put in the remote control to the holder.

① Put in.

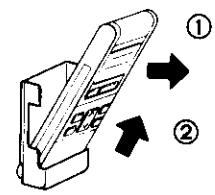
② Press.



To remove

① Pull

② Take out



How to insert batteries

1 Remove the cover from the back of the remote control.

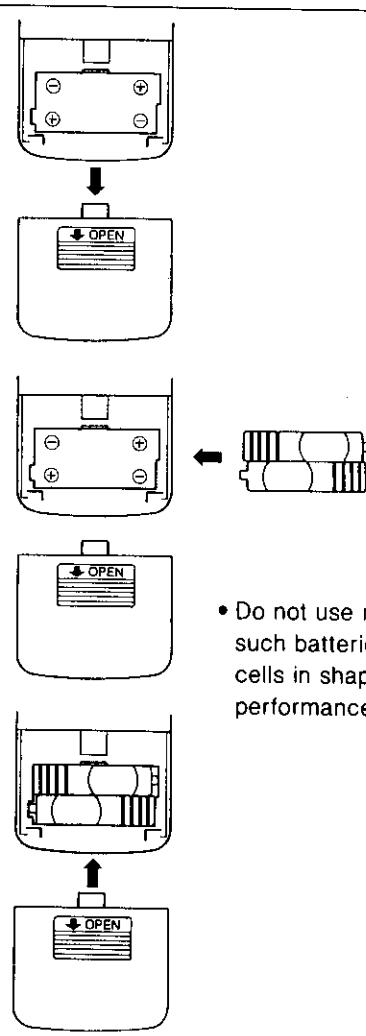
- Slide the cover according to the arrow direction.

2 Insert the two batteries.
(Two R03, UM-4 Panasonic dry-cell batteries or equivalent.)

- Be sure that the (+) and (−) directions are correct.
- Be sure that both batteries are new.

3 Re-attach the cover.

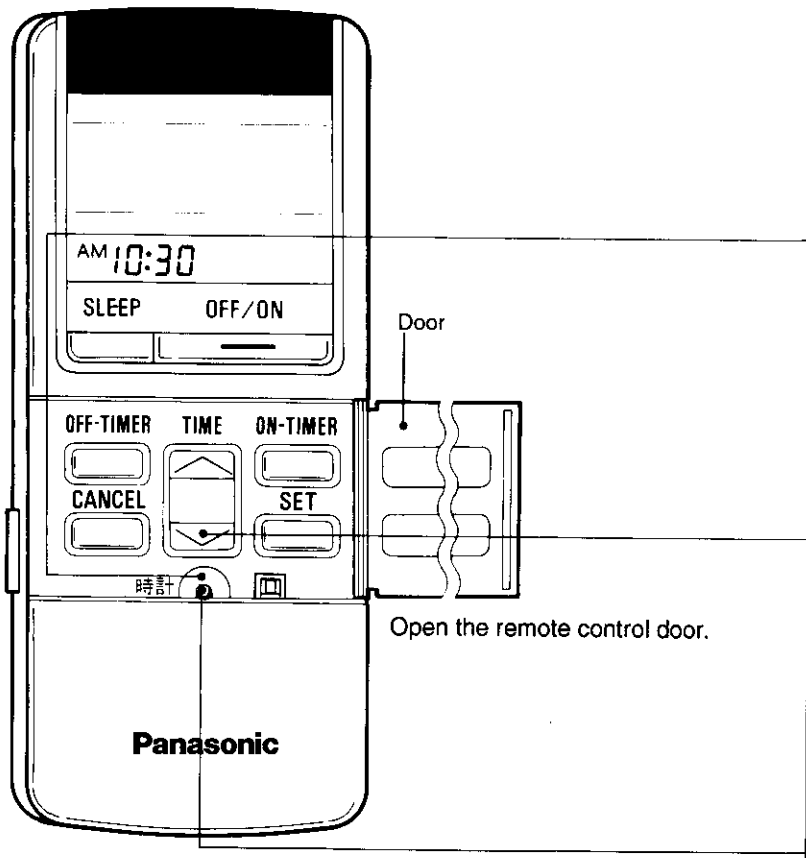
- Slide it back into position.
- Remove the batteries from the remote control if the air conditioner is not going to be used for an extended length of time.



- Do not use rechargeable batteries, such batteries differ from standard dry cells in shape, dimensions, and performance.

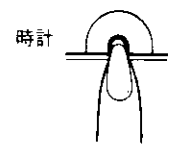
Remote Control

How to set the current time.



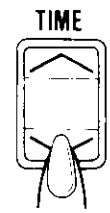
Open the remote control door.

1 Press the Clock 時計 button.



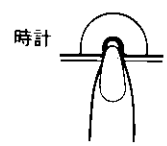
- The letters of AM or PM blinks.

2 Set the time.



- Press this mark (⌒) to advance and this mark (⌣) to reverse the time.
  (If the current time is not set correctly, the OFF/ON Dual Setting Timer cannot be set correctly.)

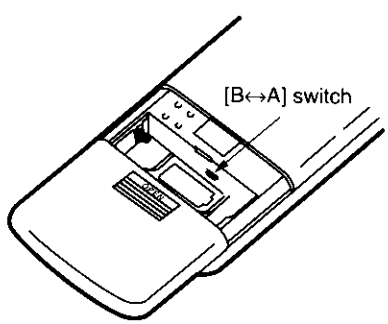
3 Press the Clock 時計 button.



- The letters of AM or PM lights up and the current time is set.
- Close the door.

Caution

- **The timer uses the current time as a reference.**
  If the time is not set correctly, correct timer setting will not be possible.
- **When the timer is set**
  The current time display will be vanished.
- **About the Remote Control [B↔A] switch**

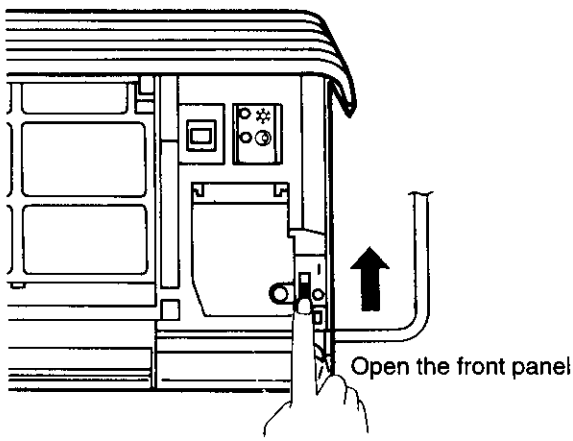


- This switch is used when two air conditioner units have been installed in one room.
- When two air conditioners with two remote controllers are used in one room, set one unit and remote controller to "A" and the other unit and remote controller to "B" to avoid mis-transmission of signals.
- If two air conditioners have been installed in one room, please consult with your dealer.

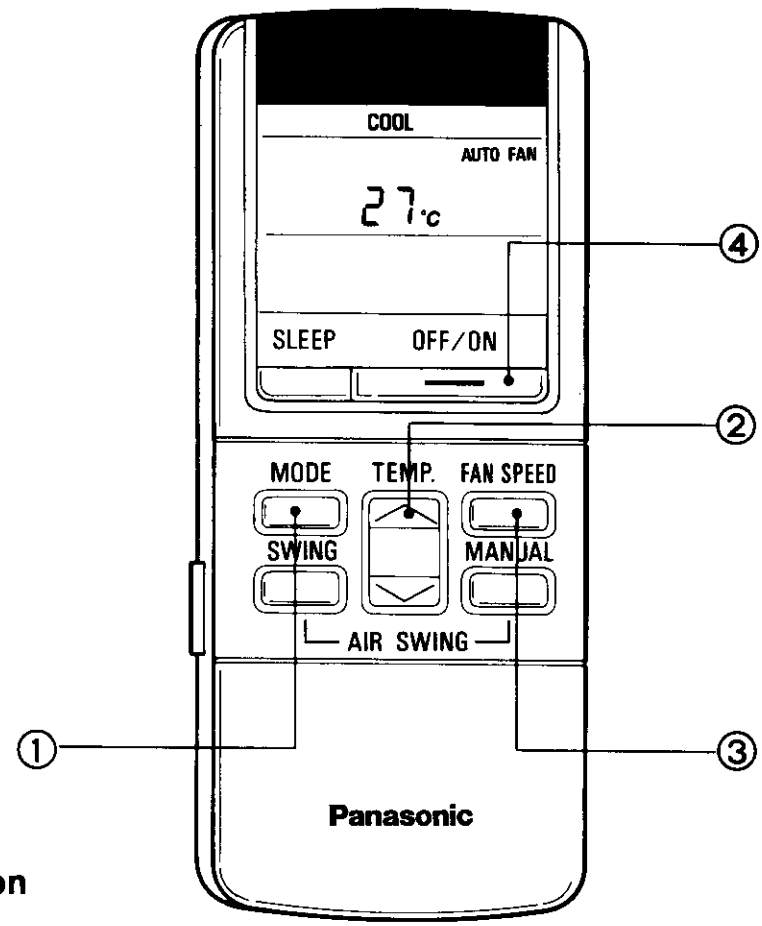
2. Air Conditioner Operation

(1) Operation Procedure

Indoor Unit



Set the Power Switch to "I" (ON)



① Operation Mode Selection Button

② Room Temperature Setting Button

③ Indoor Fan Speed Selection Button

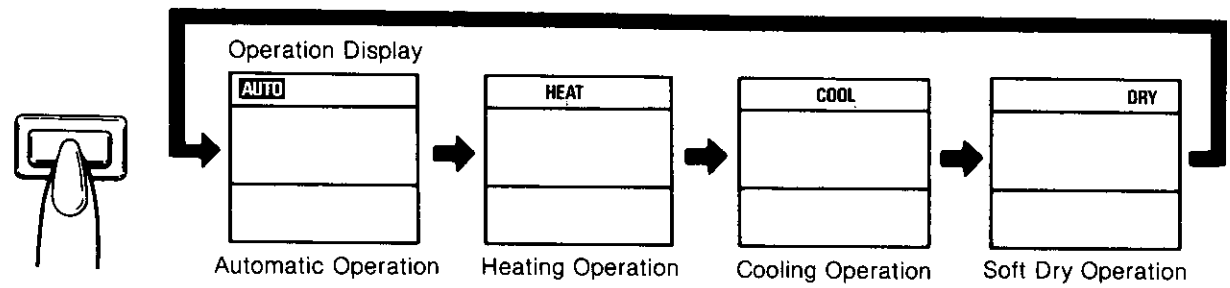
④ Off/On Button

Combination of Air Conditioner Operation

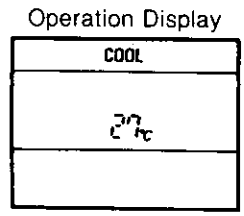
	Cooling Operation Mode (Page 7)	Heating Operation Mode (Page 8)	Soft Dry Operation Mode (Page 9)	Automatic Operation Mode (Page 10)
Airflow Direction Auto-Control (Page 12)	●	●	●	●
Timer or Sleep Mode (Page 14~16)	●	●	●	●

① Cooling Operation Mode

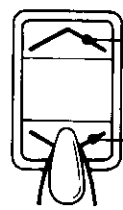
1 Select Cooling Operation.
Press the Operation Mode Selection Button.
Each time the button is pressed, the operation mode is shifted in the arrow direction.



2 Set the temperature.

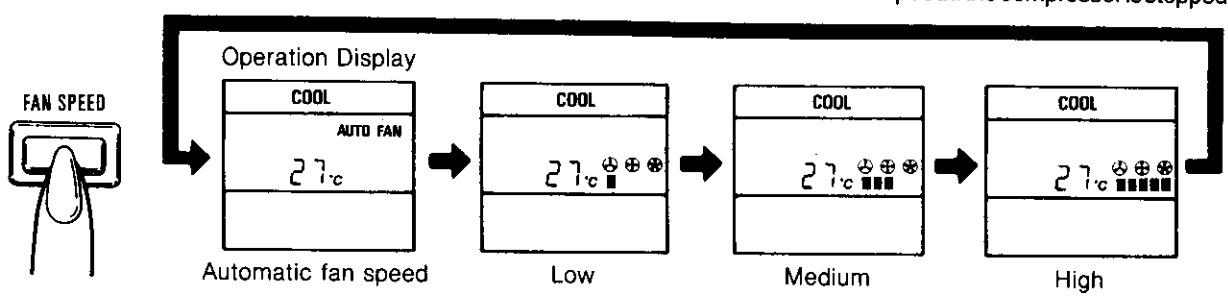


- The temperature can be set within a range of 16 to 30°C by 1°C each step.
- Usually 26°C~28°C is a recommended setting temperature.

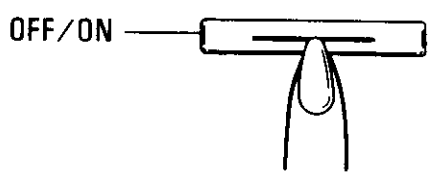


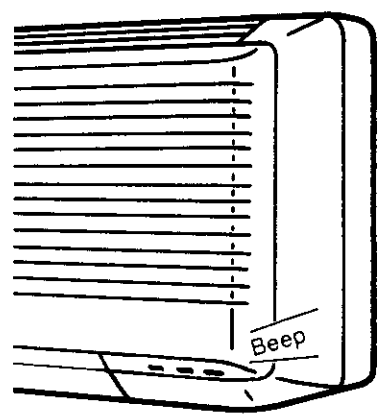
3 Set the fan speed.

- Fan speed can be selected in four steps, Auto, High, Medium or Low.
- For Auto Fan Speed Mode, the speed of the indoor fan is adjusted automatically to "High" if the compressor is in operation, and to "Medium" speed if the compressor is stopped.



4 Press the Off/On Button.

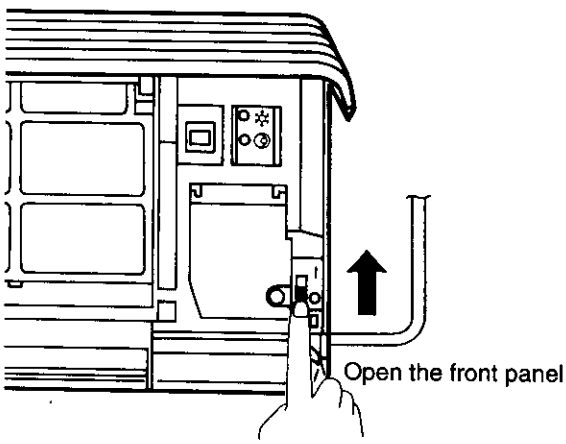




② Heating Operation Mode

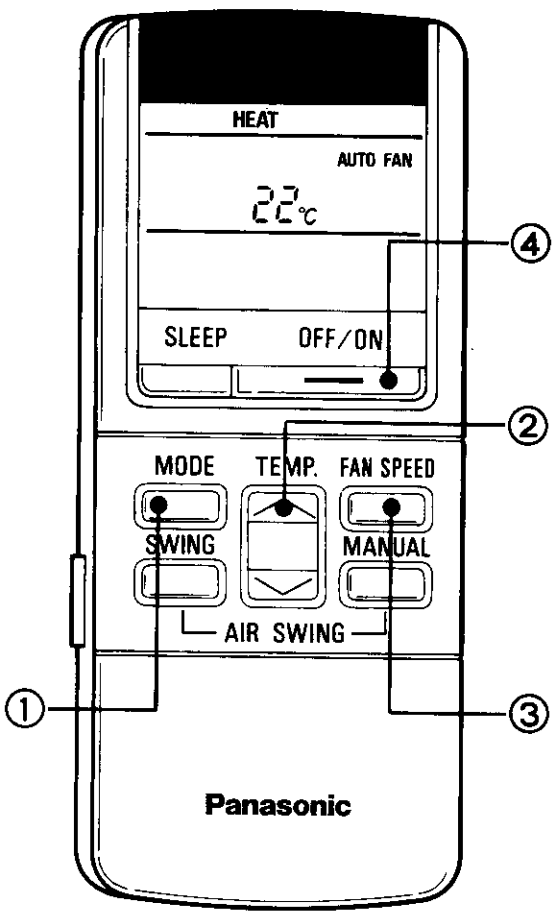
Operation Procedure

Indoor Unit

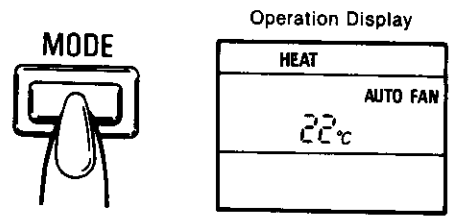


Set the Power Switch to "I" (ON)

Remote control

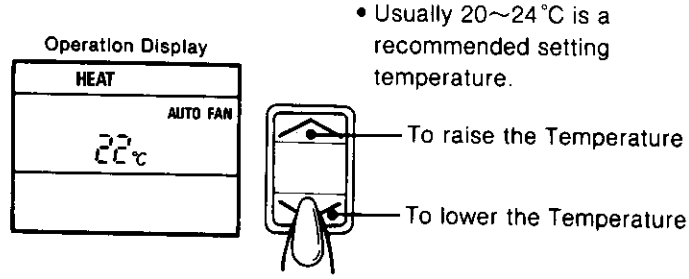


1 Select Heating Operation.
Press the Operation Mode Selection Button.



2 Set the temperature.

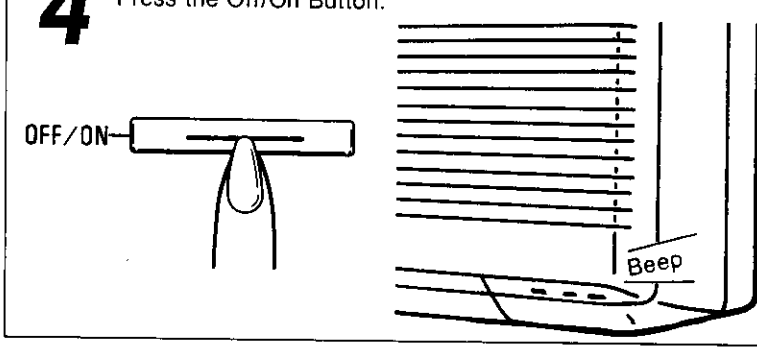
- Usually 20~24°C is a recommended setting temperature.



3

- The fan speed can be selected in 3 steps High, Medium or Low in manual operation mode.
- The fan speed is automatically changed to Medium or Low depend on discharge temperature when automatic fan speed is selected.

4 Press the Off/On Button.

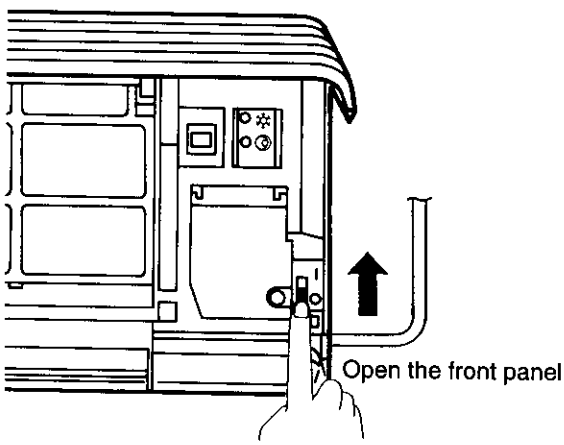


③ Soft Dry Operation Mode

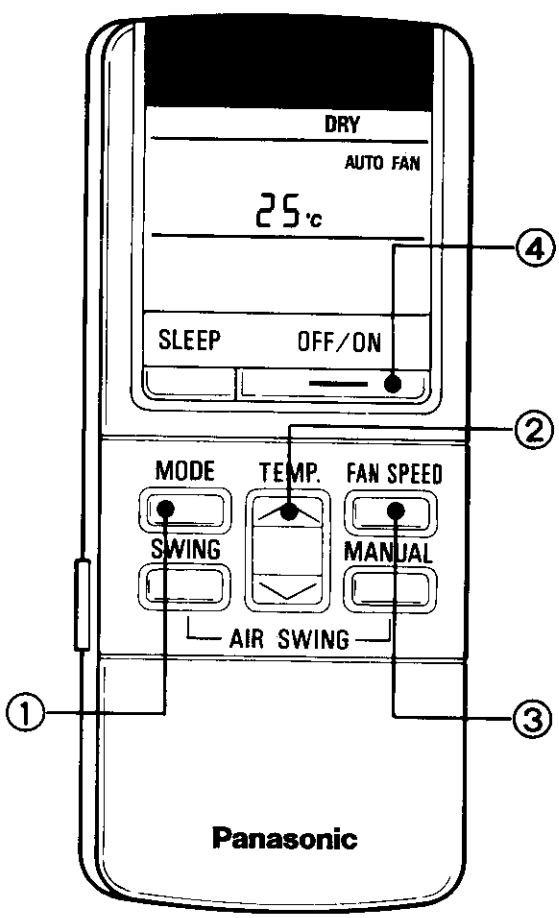
This mode dehumidifies without overcooling.

Operation Procedure

Indoor Unit

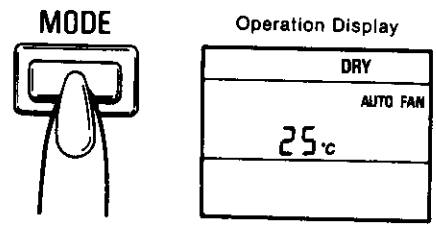


Remote control

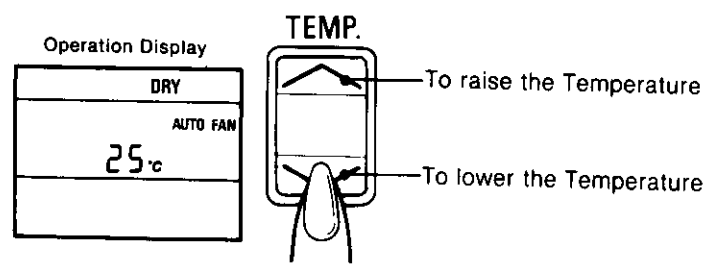


Set the Power Switch to "I" (ON)

1 Select Soft Dry Operation.
Press the Operation Mode Selection Button.

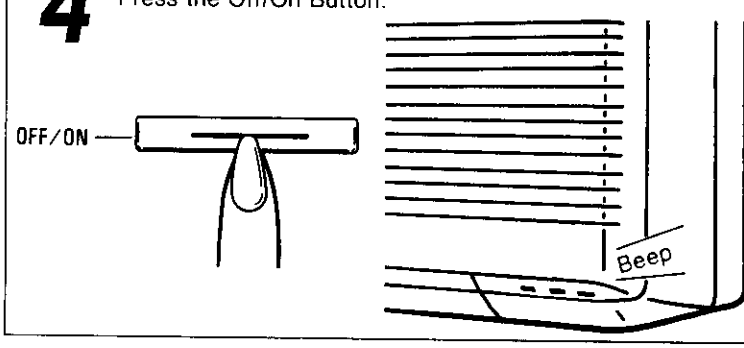


2 Set the temperature.



3 The fan speed is automatically set to Super Low.

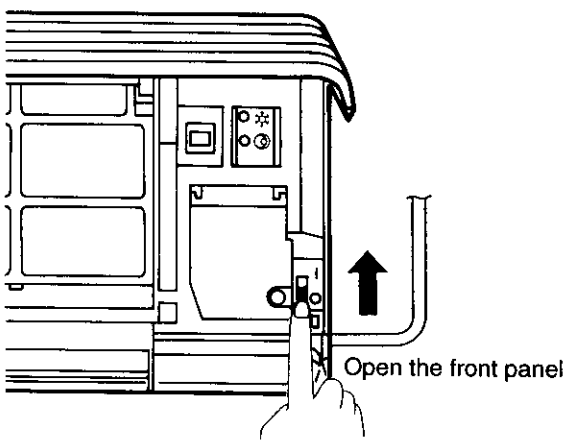
4 Press the Off/On Button.



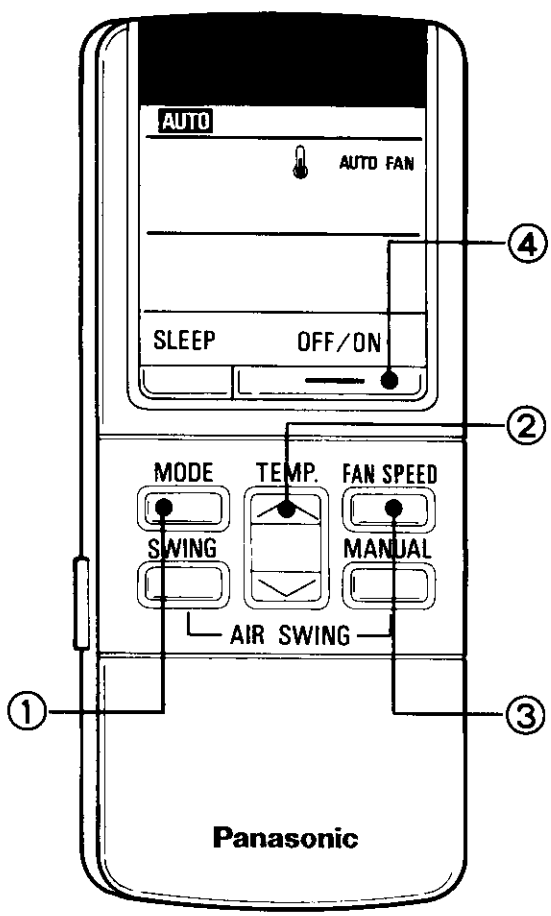
④ Automatic Operation Mode

Operation Procedure

Indoor Unit

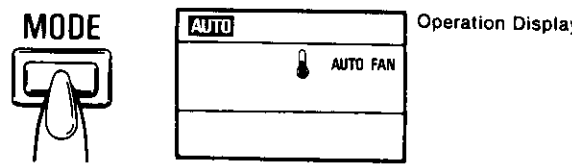


Remote control

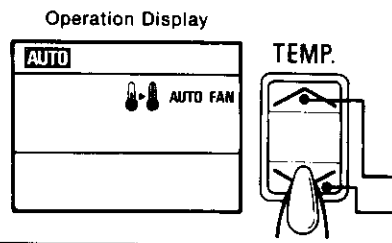


Set the Power Switch to "I" (ON)

1 Select Automatic Operation.
Press the Operation Mode Selection Button.

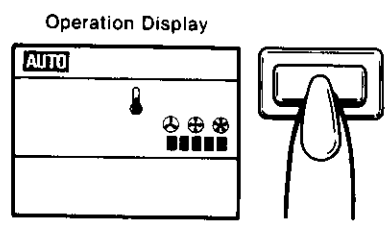


2 Set the temperature.



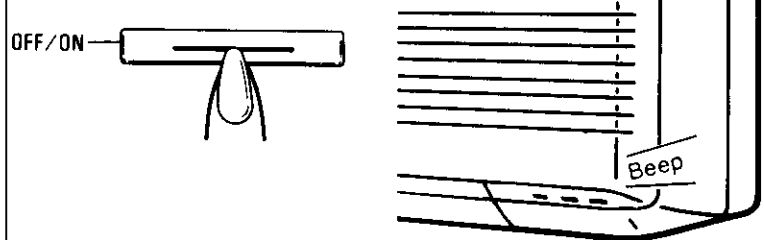
- Depending on your personal preference, clothing, etc. the set temperature can be set to 2°C higher or lower than the standard if desired.

3 Set fan speed.



- Select the fan speed in three steps, Low through High.
- The display here shows the fan speed to "High".

4 Press the Off/On Button.

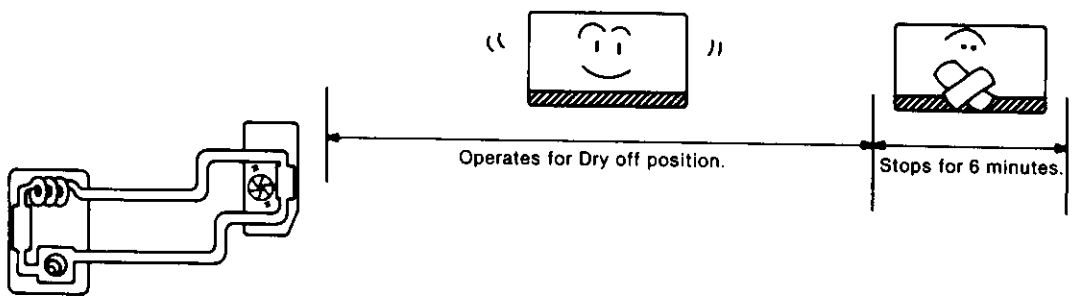


(For automatic operation, the operation lamp will first blink for 20 seconds and then remain lit.)

(2) Operation Details

① Soft Dry Operation Mode

- Soft Dry Operation Mode is a gentle cooling operation that does not lower the room temperature so much.
- The operation will be standard cooling until the temperature of the room reaches the temperature set on the remote control, and then operation will switch to Soft Dry.
- During Soft Dry operation, the fan speed automatically changes to super low, and the operation will be dry off position and stop for six minutes.



② Automatic Operation Mode

- At the start of operation, the air conditioner will sense the temperature of the room and automatically select either Cooling, Soft Dry or Heating.
  (The operation lamp will blink for 20 seconds.)
- Once the type of operation is set, it will not change.
- Set the fan Speed as desired.
- The setting temperature can be set to "Standard", 2°C "Higher" or "Lower" than the standard if desired.
  (Press the Room Temperature Setting Button as desired.)

Room Temperature	Type of Operation	Setting Temperature		
		Higher	Standard	Lower
23°C and above	Cooling	27°C	25°C	23°C
20°C ~ Below 23°C	Soft Dry	24°C	22°C	20°C
Below 20°C	Heating	23°C	21°C	19°C

③ Heating

Hot Start Operation: Airflow begins after the temperature becomes warm to avoid undesired cooling effect.
Defrosting Operation: Depend on the outdoor temperature, the operation occasionally stops to thaw the frost on the outdoor unit.

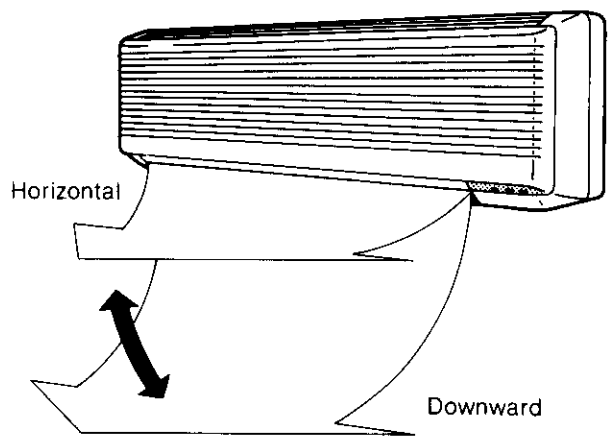
Heat is obtained from outdoor air to warm up the room. When the outdoor ambient air temperature falls, the heating capacity of the unit might be reduced. We recommend that you use an additional heating device when the outdoor ambient air temperature is low.

(3) Airflow Direction Procedure

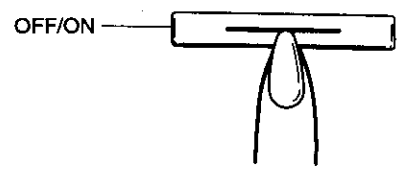
1 Vertical Airflow Direction Control

① Airflow Direction Manual Control

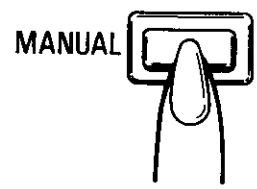
The airflow direction can be adjusted as desired by using the remote control.
This is effective when you want to cool yourself directly, such as when coming out of the bath.
The louvers can be adjusted within a range between the horizontal and 30 degrees downward at Cooling and Soft Dry Operation, and between the horizontal and 62 degrees downward at Heating Operation.



Press Off/On Button.
(Confirm the unit on operation)



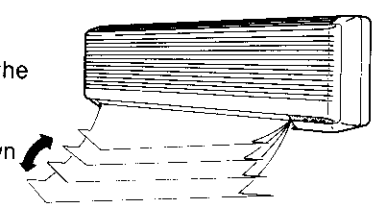
5 Press the Airflow Direction Manual Control Button, and release at the desired airflow direction.



② Airflow Direction Auto-Control

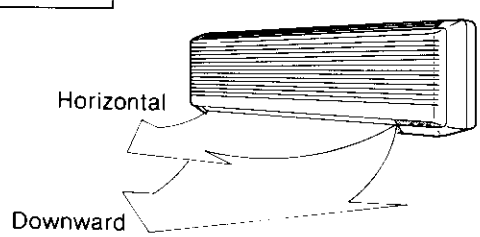
Cooling and Soft Dry Operation

The louvers will automatically swing up and down to create the feeling of refreshing breeze.



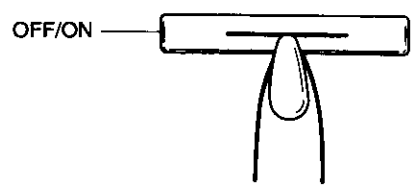
Heating Operation

When the airflow temperature is low

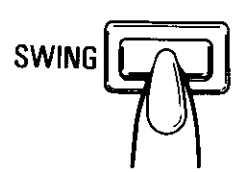


When the airflow temperature becomes warm

Press Off/On Button.
(Confirm the unit on operation)



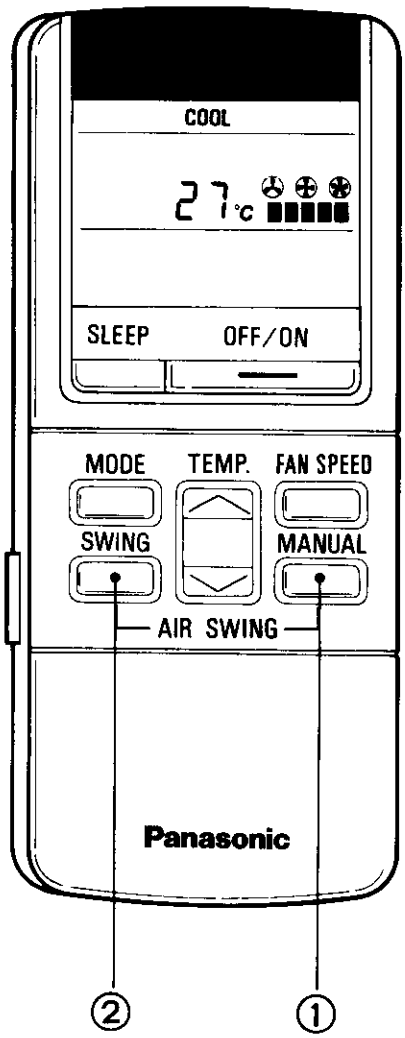
5 Press the Airflow Direction Auto-Control Button.



automatic airflow direction

To switch to manual airflow direction setting, press "MANUAL" button.

Remote Control



① Airflow Direction Manual Control Button

② Airflow Direction Auto-Control Button

Note

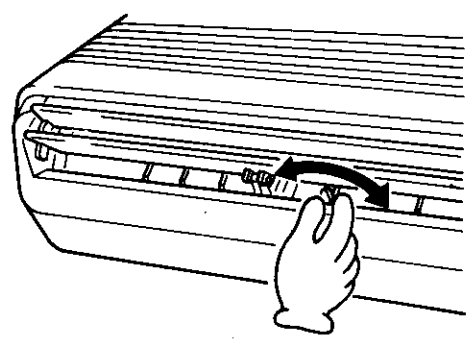
- Once the power switch has been set to "○" (OFF) the air conditioner will be set to automatic airflow direction operation when it is set back to "I" (ON).

Caution

- Always use the remote control to adjust the airflow direction. Manually moving the vertical airflow direction louver by hand could cause operation errors. If this occurs, set the power switch to "O" (OFF) and then back to "I" (ON) so that the louver returns to the correct position.
- When air conditioner operation is stopped, the vertical airflow direction louver will close the air conditioner's air outlet vent.
- During Cooling and Soft Dry operation, do not direct the vertical airflow louvers downward for hours.
  If operation continues in this way, condensation may form on the louvers and the air outlet vent,which may cause dripping.

2 Horizontal Airflow Direction Control

- Manually adjust the horizontal airflow direction louver to your desired airflow direction.



(4) Timer Setting

Once the timer is set, the same timer operation is automatically operating from the next day.

To cancel the schedule

(Example)
Cancel ON-TIMER

1 Press **ON-TIMER** button
(**ON-TIMER**)

2 Press **CANCEL** button
(**CANCEL**)

(Timer lamp goes out.)

To change the schedule time

(Example)
Change ON-TIMER from 6:20 PM to 7 : 20 PM.

1 Press **ON-TIMER** button
(**ON-TIMER**)

2 Set to 7 : 20 PM.

3 Press **SET** button
(**SET**)

If the schedule is cancelled by a power failure

(Example)
Electrical power fail when the OFF-TIMER is set for 11 : 30 PM.

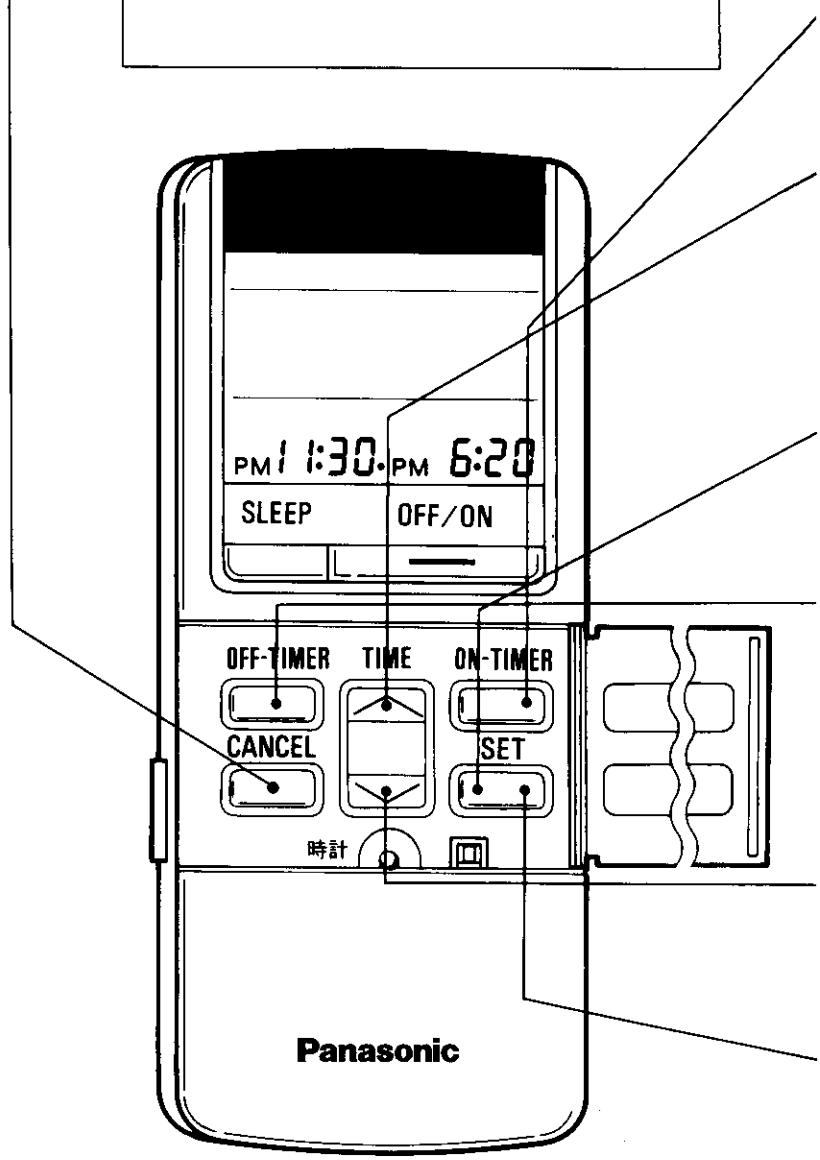
1 Press **OFF-TIMER** button
(**OFF-TIMER**)

2 Press **SET** button
(**SET**)

Note

The operation will start 15 or 30 minutes before the actual time set with (ON-TIMER) setting. This is to allow time to attain your desired set temperature.

Cooling and Soft Dry : 15 minutes before
Heating : 30 minutes before



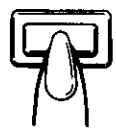
Timer setting procedure

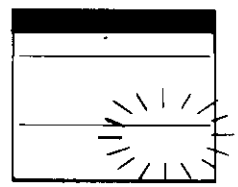
(Example) To begin operation at 6 : 20 PM and stop at 11 : 30 PM.

When using the ON-TIMER only: Steps 1-3. (when you reach home)

When using the OFF-TIMER only: Steps 4-6. (when you sleep)

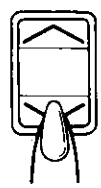
1 Press ON-TIMER button.

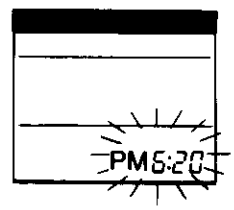




- ON-TIMER lamp blinks.

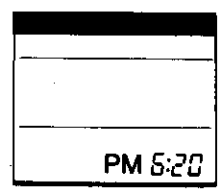
2 Set the hour and minute.
Set to 6 : 20 PM.





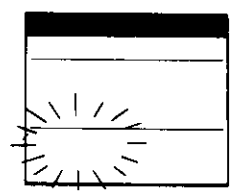
- Press button (⏩) to advance the timer and button (⏪) to reverse the timer.

3 Press SET button.



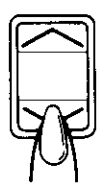
- Timer lamp lights up.

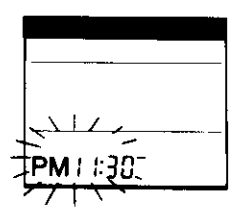
4 Press OFF-TIMER button.



- OFF-TIMER lamp blinks.

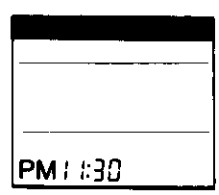
5 Set the hour and minute.
Set to 11 : 30 PM.





- Press button (⏩) to advance the timer and button (⏪) to reverse the timer.

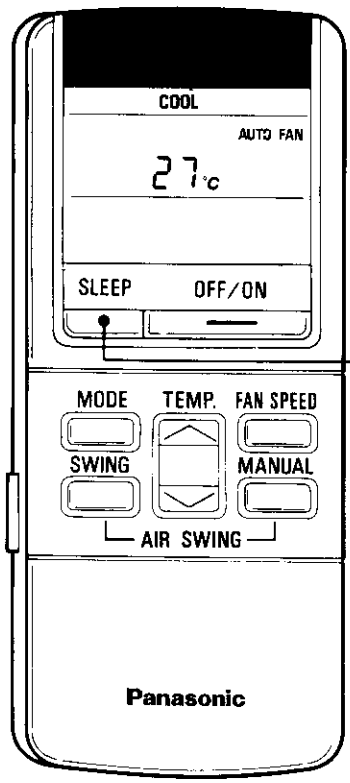
6 Press SET button.



- Timer lamp lights up.

(5) Sleep Mode Auto Control Setting

Sleep Mode operates to match your sleeping condition.



Remote Control

Press the Sleep Mode Auto Operation Button.

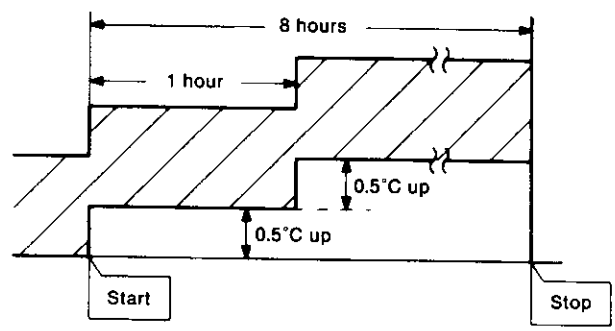
- The Sleep Mode Auto LED of the room air conditioner will light up.

Details of Sleep Mode

①Cooling or Soft Dry operation

When you press the SLEEP Mode, the following movement will start to avoid overcooling.

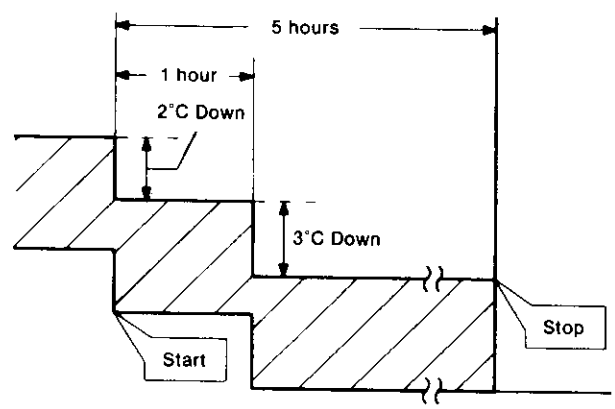
- The fan speed is automatically set to Low.
- The setting temperature will be raised by 0.5°C at the start of operation and by 0.5°C one hour later.
- The operation will stop after 8 hours.



②Heating operation

When you press the SLEEP Mode, the following movement will start to avoid overheating.

- The fan speed is automatically set to Low or Super Low.
- The setting temperature will be dropped by 2°C at the start of operation and by 3°C one hour later.
- The operation will stop after 5 hours.

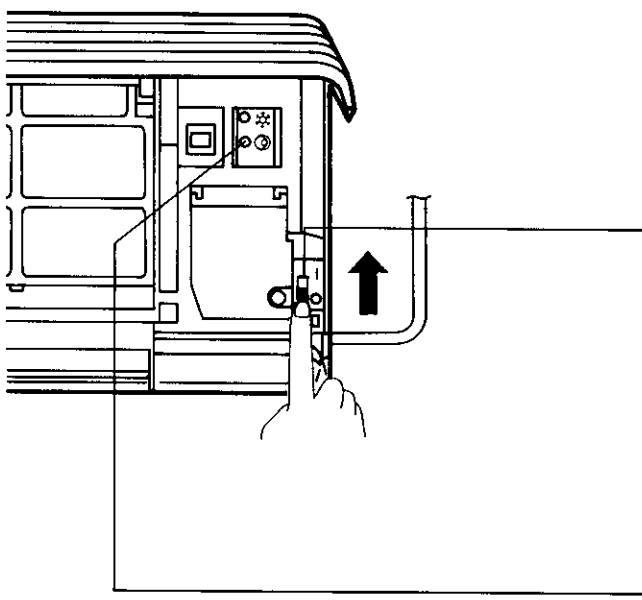


3. Forced Operation

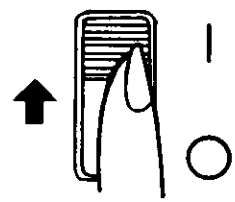
When the remote control can't be used.

"Operation procedures"

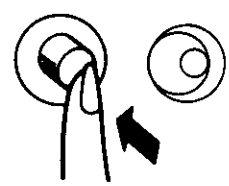
Forced operation is automatic operation, the vertical airflow direction setting will be automatic.



1 Set the Power Switch to "I" (ON)



2 Press the Forced Operation Button.



(The operation indication lamp will blink for 20 seconds, and then light up.)

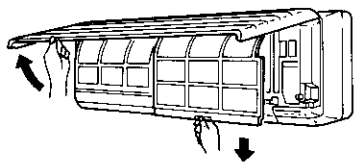
- If the button is pressed once more, the air conditioner will stop.

(The operation indication lamp will switch off.)

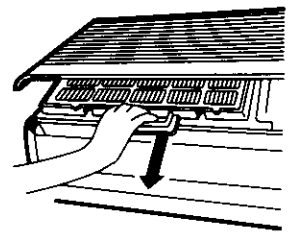
4. Care and Maintenance

Replacement of Air Purifying Filters (Recommended once every three months)

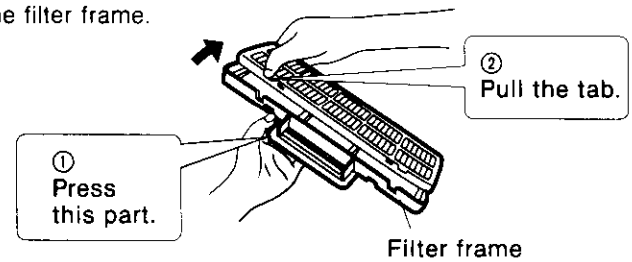
1 Remove the Air Filters.



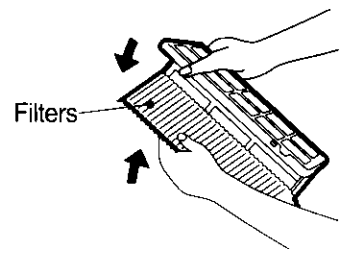
Remove the Air Purifying Filters.



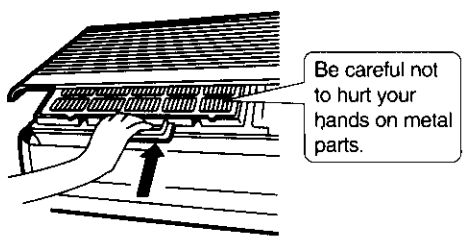
2 Remove the filter from the filter frame.



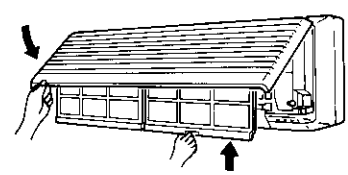
3 Insert new filters.



4 Re-insert the Air Purifying Filters (One each at right and left).

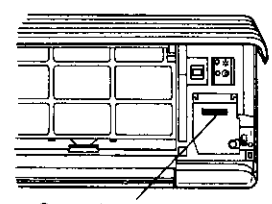


Re-insert the Air Filters.



Caution

- If Air Purifying Filters turn the same colour as the sample colour attached to the indoor unit within a three month period, replace the filters.
- Dusty filters cannot be re-used, even if they are cleaned and washed.
- Re-insert the filters correctly at the left and right, with the side marked [FRONT] facing forward. (The left and right indications are shown on the filters.)
- Purchase replacement filters from your air conditioner dealer.
- Part number for Air Purifying Filters: CZ-SFIN



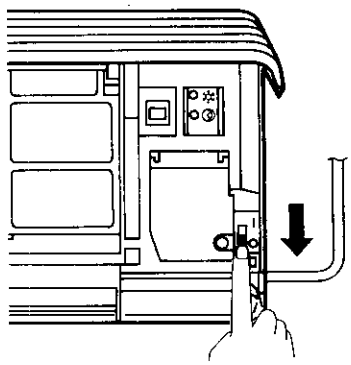
Information

- When the air purifying filters are installed, the air flow amount decreases, resulting in a slight loss of air conditioning performance.

Before performing any maintenance procedure

Set the Power Switch to "O" (OFF)

Indoor unit



Don't water to the air conditioner.

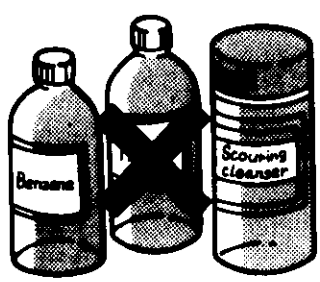
Never use any of the followings:

- Water above 40°C

Could cause deformation and/or discolouration.

- Volatile substances

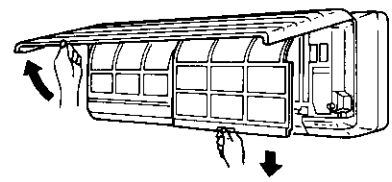
Could damage the surfaces of the air conditioner.



During the season

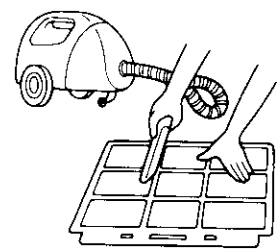
Cleaning of the air filters
Recommended once every two weeks.

1 Remove the Air Filters.
Hold the tab and raise it slightly, and then pull down.



2 Clean

- To remove the dust adhering to the filters, either use a vacuum cleaner, or wash them in water and dry in the shade.
- Re-insert the filter with the side marked "FRONT" facing forward.



If the Air Filters become damaged

- Purchase replacement filters from your air conditioner dealer.

Cleaning of the air conditioner and the remote control

- Wipe gently with a soft, dry cloth.

Faults	Cause
Airflow does not begin immediately during heating operation.	• If the airflow begins before its temperature become warm, it will cause an undesired cooling effect. In order to prevent this, the airflow will not begin until it is sufficiently warm. (The operation lamp will blink until the airflow begins.)
Operation stops for about 12 minutes during heating. (The operation lamp blinks.)	• This is to thaw the frost which has accumulated on the outdoor unit (defrosting operation). This will take no longer than about 12 minutes, so wait for operation. (Frost accumulates on the outdoor unit when the outdoor temperature is low and the humidity is high.) Water comes out of the outdoor unit.

WARNING

(1) REMOVE POWER PLUG OR DISCONNECT FROM THE MAINS BEFORE SERVICING THIS APPLIANCE.
(2) THIS APPLIANCE MUST BE EARTHED.

IMPORTANT

1. WHEN THE POWER CORD IS CONNECTED TO THE MAINS THROUGH ALL-POLE SWITCH (DISCONNECTING MEANS)
   THERE MUST BE AN ALL-POLE SWITCH (DISCONNECTING MEANS) WITH MINIMUM 3 mm CONTACT GAP IN THE FIXED INSTALLATION CIRCUIT.
2. WHEN THE POWER PLUG IS CONNECTED TO THE RECEPTACLE

The wires in this main lead are coloured in accordance with the following code:

Green-and-yellow:	Earth
Blue:	Neutral
Brown:	Live

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured green-and-yellow must be connected to the terminal in the plug which is marked with the letter E or by the earth symbol ⏚ or coloured green or green-and-yellow.
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

NOTE

IF THE SUPPLY CORD ON THIS APPLIANCE IS DAMAGED, IT MUST BE REPLACED BY A SPECIAL CORD OBTAINABLE AT AUTHORIZED SERVICE/PARTS CENTRES.

NOTICE

* Before installing the models, check with local electric authority for approval.